

Distribution

Unit Managers' Meeting: 100 Areas Remedial Action Unit/Source Operable Units

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John Price..... WDOE (Kennewick) (B5-18)
Jean Vanni..... WDOE (Kennewick) (B5-18)
Wayne Soper..... WDOE (Kennewick) (B5-18)

Dennis Faulk..... EPA (B5-01)

Randy Acselrod Washington Dept. of Health
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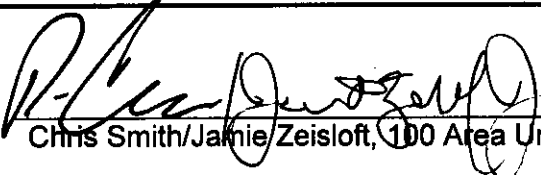
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Kim Koegler BHI (H0-23)
Rex Miller..... BHI (X3-40)
Robert Nielson BHI (X9-08)
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Dean Strom CHI (X3-40)
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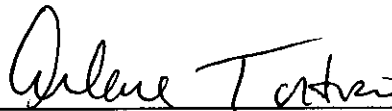
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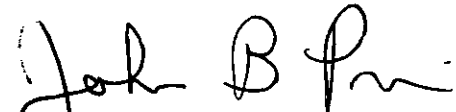
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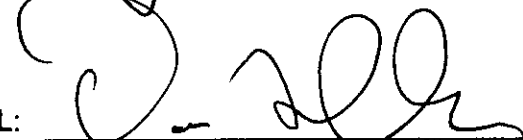
EDMC

Meeting Minutes Transmittal/Approval
Unit Managers' Meeting
100 Area Remedial Action and Waste Disposal Unit/Source Operable Unit
3350 George Washington Way, Richland, Washington
May 22, 2003

APPROVAL:  Date 6/26/03
Chris Smith/Jamie Zeisloft, 100 Area Unit Managers, RL (A3-04)

APPROVAL:  Date 6/26/03
Michael Thompson/ Arlene Tortoso, Waste Management
Division, RL (A6-38)

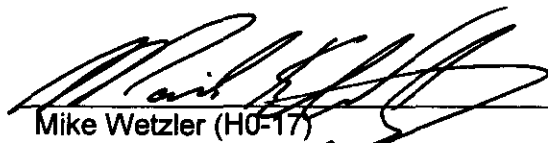
APPROVAL:  Date 6/26/03
John Price, 100 Aggregated Area Unit Manager, Ecology (B5-18)

APPROVAL:  Date 6-26-03
Dennis Faulk, 100 Aggregate Area Unit Manager, EPA (B5-01)

Meeting minutes are attached. Minutes are comprised of the following:

Attachment 1	--	Attendance Sheet
Attachment 2	--	Agenda
Attachment 3	--	100 Area Meeting Minutes
Attachment 4	--	Groundwater Operations Activities Summary Sheet
Attachment 5	--	Aquifer Sampling Tubes Report
Attachment 6	--	Petroleum Hydrocarbon Results from Well 199-N-18
Attachment 7	--	WIDS site CVP Closeout Summary Table
Attachment 8	--	<i>Deferring 105-D Fuel Storage Basin Side Slope Soils to Remedial Action and Waste Disposal Program White Paper</i>

Prepared by:


Mike Wetzler (H0-17)

Date

6/25/03

Concurrence by:



Vern Dronen, Project Manager
BHI Remedial Action and Waste Disposal Project (H0-17)

Date

6/25/03

Remedial Action and Waste Disposal Unit Managers' Meeting
Official Attendance Record - 100 Area
May 22, 2003

108421

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Chris Smith	DOE/AMRC	110 Area Unit Manager	372-1544
Richard Carlson	BHI	100/300 Design Assessment	372-9632
Dennis Faulk	EPA		
Jamie Zeisloff	RL/ERD	UM	372-0188
Larry Gadbois	EPA		376-9884
Jack Donnelly	BHI	P. env. lead	372-9565
Dib Goswami	Ecology		509-736-3015
Mark Buckmaster	BHI	Env	521-2089
T. K. Mueller	BHI	GA RAOTL	531-0673
Roger Landon	BHI		372-9209
Steve Clark	CH2	CVP	372-9531
Mike Schwab	BHI	CVP	372-9407
Bob Peterson	PNNL	100-KR-4	373-9020
Mary Hartman	PNNL	100 N	373-0028
John Fruchter	PNNL	GWMP	376-3937
Frank Conrath	BHI	Project Engineer	531-0625
John Price	Ecology	Proj. Mgr	736-3025

[illegible]

100 AREA UNIT MANAGERS MEETING AGENDA

3350 George Washington Way

May 22, 2003

1:00 – 4:00 p.m. 3350 GWW (Room 1B45)

Administrative

- Meeting minutes status
- Review and approve last UMM minutes
- Next 100 UMM is June 26, 2003, at 1:00 – 4:00, 3350 GWW (1B45)

Groundwater

- 100 Area Open Action Items
- 100-Area Open forum and discussion
- 100-BC-5 and 100-FR-3 DQO status

100-BC-5 Groundwater OU

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100-FR-3 Groundwater OU

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100-HR-3 Groundwater OU

- Remediation treatment status

100-KR-4 Groundwater OU

- Remediation treatment status
- 100 K Burial Ground Soil Gas Investigation

100-NR-2 Groundwater OU

- Remediation treatment status
- Petroleum hydrocarbon results from well 199-N-18

Review Open Action Items Log

General Crossover Items

- CVP status

D&D

- Submittal of approved *Deferring 105-D Fuel Storage Basin Side Slope Soils to Remedial Action and Waste Disposal Program* white paper

Remedial Action

100 Area Common

- 100 Area RDR/RAWP and SAP Status
- Remaining Sites ESD Status
- 100 Area Remaining Sites Confirmatory SAP Status
- Remaining Sites Sampling Efforts Status
- 118-K-1 Design
- 100 F Burial Ground Design

100 F, K, and Group 4

- 100 F General Status
- 100 K General Status
- 126-F-1 Ash Pit Path Forward

100 N

- Project Status
- Air Monitoring Plan
- Partial backfill needed at 116-N-1 Trench

100 B/C

- Project Status

105F Fuel Storage Basin

- RAWD and D&D Interface at 105F Fuel Storage Basin
- Backfilling at 105 F Fuel Storage Basin by RAWD and D&D to support SSE subcontractor mobilization

Other

UNIT MANAGERS MEETING MINUTES

3350 George Washington Way, 1B45

May 22, 2003

1:00 – 3:00 p.m. 100 Area 3350 GWW, 1B45

Administrative

- Meeting Minute Status – April's meeting minutes were approved and signed by those in attendance.
- The next 100 Area Unit Managers Meeting will be held on June 26, 2003, at 3350 GWW room 1B45 starting at 1:00 p.m.

Groundwater

- 100 Area Open Action Items – There are two action items from last months meeting that are still open.
- 100 Area Open Forum and Discussion – There were not items to discuss.
- 100-BC-5 and 100-FR-3 DQO Status – The DQO summary report is out for review. There will also be drafts going out with the sampling schedule attached.

100-BC-5 Groundwater OU

- Was not discussed.

100-FR-3 Groundwater OU

- Was not discussed.

100-HR-3 Groundwater OU

- Remediation Treatment Status – 100-HR-3 is operating at approximately 15 gallons per minute. There was some routine scheduled maintenance done last month. Extraction Well 199-H4-65 is in service.

100-KR-4 Groundwater OU

- Remediation Treatment Status – Vern Johnson (FH) was introduced as the new groundwater contact. Vern handed out and reviewed the groundwater operations activities for the period of April 21 through May 18 (**Attachment 4**). Bob Raidl (FH) handed out and reviewed the Aquifer Sampling Tubes report (**Attachment 5**). Bob briefly went over the documentation that was included in the packet.

- 100 K Burial Ground Soil Gas Investigation – The group is close to being in the field and could be there as early as June.

100-NR-2 Groundwater OU

- Remediation Treatment Status – Things are running well at 100-NR-2. The upgrades that were planned are on schedule.
- Petroleum Hydrocarbon Results from Well 199-N-18 document was handed out (**Attachment 6**) and briefly discussed.

Review Open Action Items Log

- The open action item log was not available for this meeting.

General Cross Over Items

- CVP Status – Rich Carlson (BHI) handed out the WIDS Site CVP Closeout Summary Table (**Attachment 7**).

D&D

- Submittal of approved *Deferring 105-D Fuel Storage Basin Side Slope Soils to Remedial Action and Waste Disposal Program* white paper (**Attachment 8**) was handed out.

100 Area Common

- Air Monitoring Plan – Jamie Zeisloft (DOE) stated that he met with DOE's RCA ground to discuss their disapproval of the 118-K-1 Air Monitoring Plan. RCA wants the document submitted as a secondary document or primary document depending on whether approval is necessary. Dennis Faulk (EPA) stressed their position is to approve air monitoring plans. Jamie Zeisloft (DOE) further expressed that discussions were still in progress to evaluate whether Air Monitoring Plans should be stand alone documents or appended to the Remedial Design/Remedial Action Workplans. Dennis Faulk (EPA) stated a meeting with EPA and DOE was expected in the next week to discuss CERCLA documents and approvals, but it was determined that the Air Monitoring Plan could be submitted as a primary document, but the whole document would have to be revised. There is going to be a meeting set up next week to discuss this issue.
- APQ (Annual Possession Quantity) – Jamie Zeisloft (DOE) asked if there was another way to categorize the information in the APQ (calculation vs. data).
- RDR/RAWP and SAP Status – The Ecology letter regarding the RDR/RAWP is out. John Price (Ecology) stated that he will review the letter with Ella Feist (ERC)

- **Remaining Sites ESD Status** – The document will go out for internal review soon. Once DOE gets it to review it will have to go through the full review.
- **100 Area Remaining Sites Confirmatory SAP Status** – All comments have been received from both regulatory agencies and the comments have been incorporated. DOE has elected to go with US EPA's recommendation to hold up finalizing the CSAP. The conceptual site models are of limited use because all of the sampling designs are site-specific, and are approved on an individual basis. Therefore, the site-specific designs can be submitted under the auspices of the previously approved SAP, and there's no need to finalize the CSAP.
- **Remaining Sites Sampling Efforts Status** – The remaining sites sampling should be finished with in the next few days. Three of the sites have failed so far, the rest are expect to pass.
- **118-K-1 Design Status** – The design will start the internal review process soon.
- **100 F Burial Grounds Design** – The design will state the internal review process soon.

100 F, K and Group 4

- **100 F General Status** – The backfill at 100 F will be completed by the end of this week. There will be some minor cleanup that needs to be done. revegetation will start this fall.
- **100 K General Status** – Currently they are working in the retention basin and that work should be complete by the end of June. Once the retention basin is complete they will begin remediation work on the K1 Crib and pipelines.
- **126-F-1 Ash Pit Path Forward** – Jack Donnelly (ERC) stated that he sent information to DOE regarding holding back on the CVP until 2007. Dennis Faulk (EPA) agreed that no further remedial is needed in this site.

100 N

- **Project Status** – Jon Fancher (ERC) provided an update on the project nothing the project has excavated 103,476 tons this FY, and excavating a total of 345,419 tons since beginning of the project (this includes 116-N-3 & 116-N-1). The project should finish digging in early June. After that the subcontractor will decon equipment and then demobilize from the site. Currently BHI has a procurement out for redesign, which should be awarded soon. John Price (Ecology) noted that Ecology would like to be involved in the redesign, and requested a briefing. Jon Fancher (ERC) noted the project would need to backfill a portion of the 116-N-1 Trench. This is because excavating plumes in the east and the crib in the west will remove access to the river

side of trench/crib, and a backfill for an access road over the trench is needed. This will keep dose to non-project workers ALARA and eliminate traffic issues.

- Air Monitoring – 100 N has calculated a revised estimate of the TEDE (dose) from 116-N-1 in CY 2003. This new estimate (8.18 mr/yr) is slightly higher than the previous estimate (6.87 mr/yr). These figures had already been communicated to Ecology and Health. John Price (Ecology) is aware of this and did not need any additional information, and was not concerned and felt at this time no further action was needed. The current plan is to revise the AMP. The Air Monitoring Plan is part of the RD/RA work plan and the work plan would need to be revised each time an air monitoring plan is revised.

100 B/C

- Project Status – Currently they are chasing plumes near the B Reactor and they are continuing removal of over-burden near C Reactor
- There will be 5 CVP's going out now and another 2 are scheduled to go out soon. Dean Strom (ERC) stated that he would like to combine the over-burden material of the 6 accelerated sites into one sample design and one CVP. Dennis Faulk (EPA) stated that he would like to see the data first, if the levels are low then he will not have a problem with doing that.

Outstanding 100 Area Unit Manager's Meeting Action Items

April 2003 Actions

- **Arlene Tortoso (RL) to look into the possibility for a replacement well.**
- **Arlene Tortoso (RL) to provide a plan for installing a new shoreline aquifer tubes in the 100 Area**

100 Area UMM – May 2003

Groundwater operations activities for the period of April 21 through May 18 are summarized as follows.

ISRM

- Dithionite injections were completed in April. Extractions continued during the report period and were 50% complete on 5/20/03.
- The water level in the solar evaporation ponds is high because of lower than expected evaporation rates due to:
 - ✓ unseasonably cool weather conditions
 - ✓ windy conditions that reduce spray system operating time
- The monthly hexavalent chromium results for wells near the dichromate transfer station (199-D4-15, -D5-38, -D5-39, -D5-43) are comparable to the previous month (see attached figure). The highest concentration was 5100 ug/L for well 199-D5-39. The time versus concentration pattern suggests this well is very near the source (i.e. sharply changing concentrations). Well 199-D5-38, located 200 m in the downgradient direction from -D5-39, exhibits a similar pattern, suggesting a common source.

100-HR-3

- The system operated at a flow rate of 255 to 260 gpm
- Run times were: 99% for the reporting period, 98.6% for FY 2003 and 92% since system inception
- Resin was replaced in vessel A1 on 4/29/03
- Unscheduled outage for 1.5 hrs on 5/1/03 for sluice pump work
- Extraction well H4-65 was placed back in service during the period
- Booster pump motor replacement was completed

100-KR-4

- The system operated at a flow rate of 265 to 274 gpm during the report period.
- Run times were: 100% for the report period, 99.6% for the year to date and 94.7% since system inception.

- Design for upgrading transfer pumps is over 90% complete and H and N pump motor repairs are 50% complete.
- The hexavalent chromium concentration was 50 ug/L in well K-130 on 3/26/03.
- Extraction well K-126 was shutdown from 3/25/03 to 3/28/03 due to low water levels. The average flow rate for the report period was 13.5 gpm and ranged from 13 to 15 gpm.
- New resins were installed in vessels B2 and C2 on 4/29/03.
- Installation of new aquifer tubes to supplement well coverage is planned for early FY04. Approximately 15 tubes total are budgeted for KR-4 and HR-3. Preliminary site locations were considered during the report period. However, selection of final locations will require consideration of both cultural and physical constraints and interaction with other interested parties.
- Well K-33 (located to the north of the KW fuel storage basin) will be replaced.

100-NR-2

- The system operated at a flow rate of 65 gpm for the report period
- Run times were: 96.2 % for the report period, 96.8% for FY03 and 94.0% since system inception.
- Process pump upgrades are on schedule
- Parts for a leaking valve in the treatment train piping (currently bypassed) arrived and are ready for installation (pending craft scheduling).
- Clinoptilolite shipment has arrived ahead of schedule.
- A draft report summarizing existing information on riparian and aquatic species in the vicinity of N springs was prepared by PNNL. This information will be used as background for an "interested parties" workshop on groundwater remediation at 100 N to be held in early August 03. This initial effort is intended to provide an opportunity for dialogue among interested parties regarding remediation alternatives.

Aquifer Sampling Tubes: November 2002 to January 2003

AGRT_NAME _CURRENT	WELL_ID	PORT_ DEPTH (feet)	SEGMENT	HEIGHT	On water test	On water test	Fall 2002 Sample Date	Fall 2002 Spec Conduct (uS/cm)	Fall 2002 Sample No.	Lab	Hex Chromium (ug/L)	Fall 2002 Sulfate (mg/L)	Severn Trent Analysis	Fall 2002 Comment
01-S	B8115	7.0	VERN	2.800	x	x			Not sampled					Assigned lowest priority
01-M	B8114	16.0	VERN	2.800	x	x			Not sampled					Assigned lowest priority
01-D	B8113	24.0	VERN	2.800	x	x			Not sampled					Assigned lowest priority
02-S	B8118	6.0	VERN	3.130	x	x			Not sampled					Assigned lowest priority
02-M	B8117	14.9	VERN	3.130	x	x			Not sampled					Assigned lowest priority
03-M	B8120	7.0	BC5	3.450	x	x								
03-D	B8119	13.0	BC5	3.450	x	x								
04-S	B8124	8.3	BC5	3.730	x	x	12/16/2002	337	B15Y8	SV	7			
04-M	B8123	13.0	BC5	3.730	x	x	12/16/2002	337	B15Y6	SV	11			
04-D	B8122	25.0	BC5	3.730	x	x	12/16/2002	336	B15Y4	SV	8			
05-S	B8127	8.5	BC5	3.730	x	x	12/16/2002	336	B15Y5	STR				
05-M	B8126	17.0	BC5	3.880	x	x	12/16/2002	205	B16004	SV	4		Sr-90; H3	
05-M	B8128	17.0	BC5	3.880	x	x	12/16/2002	345	B16000	SV	38			
05-D	B8125	25.5	BC5	3.880	x	x	12/16/2002	345	B16001	STR				
06-S	B8130	8.8	BC5	3.880	x	x	12/16/2002	313	B16002	SV	27			
06-M	B8129	15.5	BC5	4.120	x	x	12/16/2002	239	B16012	SV				
06-M	B8129	15.5	BC5	4.120	x	x	12/16/2002	351	B16008	SV	37			Sample opaque-could not analyze; nonsettled
06-D	B8128	23.0	BC5	4.120	x	x	12/16/2002	351	B16007	STR				
07-M	B8132	8.0	BC5	4.270	x	x	12/16/2002	387	B16008	SV	36			
07-D	B8131	20.0	BC5	4.270	x	x	12/16/2002	284	No yield					No yield
07-D	B8131	20.0	BC5	4.270	x	x	12/16/2002	284	B16014	SV	9			
11-D	B8143	10.5	BC5	5.070	x	x	12/16/2002	284	B16015	STR			Sr-90; H3	
12-D	B8146	10.0	BC5	5.330	x	x			Not sampled					Assigned lowest priority
13-S	B8151	8.3	BC5	5.610	x	x			Not sampled					Assigned lowest priority
13-D	B8149	22.9	BC5	5.610	x	x			Not sampled					Assigned lowest priority
14-S	B8154	7.5	BC5	5.880	x	x	11/20/2002		Not sampled					Assigned lowest priority
14-M	B8153	14.5	BC5	5.880	x	x	11/20/2002	371	B16028	SV				Lower spec conduct
14-D	B8152	21.5	BC5	5.880	x	x	11/20/2002	371	B15Y1	STR	3		To-99; Sr-90; GAMGB; H3	Substitute for 15-M
14-D	B8152	21.5	BC5	5.880	x	x	11/20/2002	371	B15Y3	STR			Antimony	Substitute for 15-M
14-D	B8152	21.5	BC5	5.880	x	x	11/20/2002	371	B15Y0	STR			Metals	Substitute for 15-M
15-M	B8156	13.7	KR4	6.080	x	x	9/24/2002		Not sampled					Can't locate 924002 (looked wrong area); go further downstream
17-M	B8162	11.0	KR4	6.470	x	x	11/20/2002	302	B16032	SV			C-14; GAMGB; H3	
17-M	B8162	11.0	KR4	6.470	x	x	11/20/2002	302	B15Y5	STR	2		Antimony	
17-D	B8161	19.5	KR4	6.470	x	x	11/20/2002	302	B15Y4	STR				
18-S	B8204	8.5	KR4	6.710	x	x	9/24/2002	339	B16030	SV	2			Did not collect for Sr-90 analysis
19-M	B8205	10.0	KR4	6.850	x	x	11/19/2002	228	None					Can't locate 924002 (looked wrong area); it's between pump houses
19-D	B8205	22.0	KR4	6.850	x	x	11/19/2002	228	B16036	ML	5			Lower spec conduct
19-D	B8205	22.0	KR4	6.850	x	x	11/19/2002	226	B15Y9	STR				
21-S	B8213	11	KR4	7.420	x	x	11/19/2002	126	B16011	SV	2		To-99; H3	
21-M	B8212	15	KR4	7.420	x	x	11/19/2002	172	B16040	ML	5		Sr-90; C-14; H3	
22-M	B8215	7.5	KR4	7.730	x	x	11/19/2002	142	B16043	SV	8			
22-D	B8214	12.3	KR4	7.730	x	x	11/19/2002	244	B16042	ML	52			
23-M	B8218	7.0	KR4	7.900	x	x	9/24/2002	244	Not sampled					Could not locate
23-D	B8217	12.0	KR4	7.900	x	x	9/24/2002		Not sampled					Could not locate
DK-04-2	B8526	11.5	KR4	8.140	x	x	11/19/2002	244	B160X0	SV	30			Temporary protection installed
DK-04-2	B8526	11.5	KR4	8.140	x	x	11/19/2002	244	B161P9	STR			H3	
DK-04-3	B8527	15	KR4	8.140	x	x	11/19/2002	241	B160K1	ML	24			Temporary protection installed
25-D	B8223	7.5	KR4	8.260	x	x	11/19/2002	121	B16046	ML	5			Regrouped with KR4
26-S	B8228	6.0	KR4	8.380	x	x	11/20/2002	112	B16048	SV	1			Regrouped with KR4
26-M	B8227	14.0	KR4	8.380	x	x	11/20/2002	144	B16048	SV	1			Regrouped with KR4
26-D	B8226	23.0	KR4	8.380	x	x	11/20/2002	340	B16047	SV	17			Regrouped with KR4
26-D	B8226	23.0	KR4	8.380	x	x	11/20/2002	340	B15Y42	STR			H3	

Aquifer Sampling Tubes: November 2002 to January 2003

AQST_NAME CURRENT	WELL_ID	PORT_ DEPTH (feet)	SEGMENT	WPRZ	On Water Net	On Water Net	Fall 2002 Sample Date	Fall 2002 Spec Conduct (uS/cm)	Fall 2002 Sample No.	Lab	Fall 2002 Hex Chromium (ug/L)	Fall 2002 Sulfate (mg/L)	Sewer Treat Analyses	Fall 2002 Comment
DD-50-1	B8515	15	NR2	9.800	x	x	12/18/2002	182	B16017	SV	14			
DD-50-2	B8516	20	NR2	9.800	x	x	12/18/2002	245	B16038	SV	24			
DD-50-3	B8517	24.7	NR2	9.800	x	x	12/18/2002	244	B16039	ML	28	30		
DD-50-4	B8518	31	NR2	9.800	x	x	12/18/2002	244	B16005	STR			H3	
DD-49-1	B8511	12	NR2	9.830	x	x	12/18/2002	184	Not sampled					Try again to sample, tube closer to river than others
DD-49-2	B8512	21.8	NR2	9.830	x	x	12/18/2002	252	B16012	SV	20			Dupl result is 9.871; confusion over 12 or 16 ft (both installed)
DD-49-3	B8513	25	NR2	9.830	x	x	12/18/2002	263	B16013	SV	17			Confusion over 12 or 16 ft tube
DD-49-4	B8514	31	NR2	9.830	x	x	12/18/2002	256	B16015	ML	25	31		
DD-49-5	B8509	12	NR2	10.010	x	x	12/18/2002	202	B16030	SV	46			
DD-44-1	B8510	18	HR3D	10.010	x	x	12/18/2002	533	B16011	ML	247	100		
DD-44-2	B8510	18	HR3D	10.010	x	x	12/18/2002	533	B15Y79	STR			H3	
DD-43-2	B8507	10	HR3D	10.050	x	x	12/18/2002	281	Not sampled					No yield
DD-43-3	B8508	13.9	HR3D	10.050	x	x	12/18/2002	281	B16048	ML	144	44		
DD-42-2	B8504	10.2	HR3D	10.090	x	x	12/18/2002		No yield					No yield
DD-42-3	B8505	15.2	HR3D	10.090	x	x	12/18/2002		No yield					No yield
DD-42-4	B8506	18.2	HR3D	10.090	x	x	12/18/2002	354	B16017	ML	295	56		
DD-41-2	B8483	13.6	HR3D	10.124	x	x	12/18/2002	295	B16012	ML	176	59		
DD-41-3	B8484	18.6	HR3D	10.124	x	x	12/18/2002	280	B16013	SV	143			
DD-41-1	B8503	8.1	HR3D	10.124	x	x	12/18/2002	124	B16014	SV	1			Probably shallow tube at 8.1 ft (i.e., DD-41-1, not -4)
Redox-4-3.0	C3583	3.00	HR3D	10.125	x	x	12/18/2002		No yield					Riverbed pore water tubes; no yield
Redox-4-6.0	C3515	6.00	HR3D	10.125	x	x	12/18/2002		No yield					Riverbed pore water tubes; no yield
Redox-3-3.3	C3584	3.30	HR3D	10.180	x	x	12/18/2002	611	B16013	SV	172			Riverbed pore water tubes
Redox-3-4.6	C3514	4.60	HR3D	10.180	x	x	12/18/2002	585	B16017	ML	166	160		Riverbed pore water tubes
DD-38-1	B8479	5.5	HR3D	10.210	x	x	12/18/2002	182	B15Y79	SV	13			Riverbed pore water tubes
DD-38-1	B8479	5.5	HR3D	10.210	x	x	12/18/2002	182	B16018	SV	12			Black PVC
DD-38-2	B8480	10.5	HR3D	10.210	x	x	12/18/2002	572	B16019	ML	104	145		Black PVC
DD-38-3	B8481	15	HR3D	10.210	x	x	12/18/2002		No yield					Black PVC; no yield
DD-39-4	B8482	21	HR3D	10.210	x	x	12/18/2002		No yield					Black PVC; no yield
TDP-39									Not sampled					Diver-installed riverbed pore water tubes
Redox-2-3.0	C3585	3.00	HR3D	10.240	x	x	12/18/2002	227	B16014	SV	41			Riverbed pore water tubes
Redox-2-6.0	C3513	6.00	HR3D	10.240	x	x	12/18/2002	297	B16015	ML	30	55		Riverbed pore water tubes
Redox-1-3.3	C3582	3.30	HR3D	10.295	x	x	12/18/2002		No yield					Riverbed pore water tubes; no yield
Redox-1-6.0	C3512	6.00	HR3D	10.295	x	x	12/18/2002		No yield					Riverbed pore water tubes; no yield
35-S	B8255	8.0	HR3D	10.390										
35-M	B8254	14.0	HR3D	10.390										
35-D	B8253	21.0	HR3D	10.390										
36-S	B8258	8.0	HR3D	10.580										
36-M	B8257	14.0	HR3D	10.580										
36-D	B8256	21.0	HR3D	10.580										
37-S	B8261	6.5	HR3D	10.700										
37-M	B8260	13.5	HR3D	10.700										
37-D	B8259	19.5	HR3D	10.700										
38-M	B8263	10.0	HR3D	10.840										
DD-17-2	B8477	10.5	HR3D	11.030	x	x	1/9/2003	166	B16018	ML	34			INLAND (); No flow from OFFSHORE (); tube identify uncertain
DD-17-3	B8478	15	HR3D	11.030	x	x	1/9/2003		Not sampled					TOFFSHORE? (); tube identify uncertain; no yield
DD-16-4	B8475	17.5	HR3D	11.060	x	x	1/9/2003		Not sampled					Could not locate
DD-16-4	B8476	25.5	HR3D	11.060	x	x	1/9/2003		Not sampled					Could not locate
DD-15-2	B8472	15	HR3D	11.100	x	x	1/9/2003		Not sampled					7A?; muddy, ac = 127; no sample
DD-15-3	B8473	21	HR3D	11.100	x	x	1/9/2003	182	B16013	ML	21			
DD-15-4	B8474	25.5	HR3D	11.100	x	x	1/9/2003	201	Not sampled					7B?; no yield
TDP-15-C	none													One of three diver-installed riverbed pore water tubes
DD-12-2	B8469	10	HR3D	11.200	x	x	1/9/2003		Not sampled					Low spec conduct (either 12-2 or 12-3)
DD-12-3	B8470	15	HR3D	11.200	x	x	1/9/2003		Not sampled					Missing tube, state only (either 12-2 or 12-3)

Aquifer Sampling Tubes: November 2002 to January 2003

AQST_NAME _CURRENT	WELL_ID	PORT_ DEPTH (feet-ips)	SEGMENT	HW202	On 10/20/02 Ref	On 10/24/02 Ref	Fall 2002 Sample Date	Fall 2002 Spec Conduct (uS/cm)	Fall 2002 Sample No.	Lab	Fall 2002 Hex Chromium (ug/L)	Fall 2002 Sulfate (mg/L)	Severn Trent Analyses	Fall 2002 Comment
DD-12-4	B8471	21	HR3D	11,200	x		1/9/2003	148	B16009	ML	14			INLAND (), OFFSHORE () sc = 127
DD-10-2	B8819		HR3D	11,270	x		1/9/2003		Not sampled					78SHORT?
DD-10-3	B8820		HR3D	11,270	x		1/9/2003		Not sampled					78MEDIUM?
DD-10-4	B8468	22	HR3D	11,270	x		1/9/2003	182	B16007	ML	6			TALL of three tubes; SHORT sc = 128; MEDIUM sc = 139
DD-08-2	B8821		HR3D	11,340	x		1/9/2003		Not sampled					Could not locate
DD-08-3	B8466	17.2	HR3D	11,340	x		1/9/2003		Not sampled					Could not locate
DD-08-4	B8467	22	HR3D	11,340	x		1/9/2003		Not sampled					Could not locate
DD-08-2	B8464	12	HR3D	11,400	x		1/9/2003		No yield					"C" sc = 117 rising; "A" no yield
DD-08-3	B8465	16	HR3D	11,400	x		1/9/2003	197	B16001	ML	9			"B" of three tubes
39-S	B8267	8.0	HR3D	11,620										
39-M	B8266	18.0	HR3D	11,620										
39-D	B8265	28.0	HR3D	11,620										
40-S	B8270	8.0	HR3D	11,980										
40-M	B8268	15.5	HR3D	11,980										
41-S	B8273	10.0	HR3D	13,100										
41-M	B8272	15.0	HR3D	13,100										
41-D	B8271	25.0	HR3D	13,100										
42-S	B8276	10.0	HR3D	13,550	x				Not sampled					Not accessed - engines in the area
42-M	B8275	15.0	HR3D	13,550	x				Not sampled					Not accessed - engines in the area
42-D	B8274	24.0	HR3D	13,550	x				Not sampled					Not accessed - engines in the area
43-M	B8278	7.5	HR3H	14,040										
43-D	B8277	9.7	HR3H	14,040										
44-M	B8281	8.5	HR3H	14,260	x				Not sampled					Not accessed - engines in the area
44-D	B8280	12.7	HR3H	14,260	x				Not sampled					Not accessed - engines in the area
DH-1451-1	B8521		HR3H	14,300										
DH-1452-1	B8522		HR3H	14,450										
45-S	B8285	8.0	HR3H	14,660										
45-M	B8284	15.0	HR3H	14,660										
45-D	B8283	23.0	HR3H	14,660										
DH-14-1	B8519	32	HR3H	14,660										
DH-14-11	B8520		HR3H	14,660										
46-D	B8286	10.5	HR3H	15,120	x		1/14/2003	183	B16056	ML	8			
46-D	B8286	10.5	HR3H	15,120	x		1/14/2003	183	B15176	STR		To-99		
47-M	B8290	8.0	HR3H	15,300	x		1/14/2003		Not sampled					DOWNSTREAM sc = 128
47-D	B8289	14.5	HR3H	15,300			1/14/2003	143	B15176	ML	8			UPSTREAM; River sc = 140
DH-22-1	B8523	4	HR3H	15,500										
DH-22-2	B8524	8	HR3H	15,500										
DH-22-3	B8525	13.5	HR3H	15,500										
48-S	B8294	9.0	HR3H	15,520	x		1/14/2003	466	B16059	SV	15			
48-M	B8293	17.0	HR3H	15,520	x		1/14/2003	476	B16058	ML	21			
48-M	B8293	17.0	HR3H	15,520	x		1/14/2003	476	B16056	SV	18			QC lab split
48-M	B8293	17.0	HR3H	15,520	x		1/14/2003	476	B15175	STR				
48-D	B8292	25.0	HR3H	15,520	x		1/14/2003	409	B16065	SV	17			No yield
49-S	B8297	8.5	HR3H	15,680	x		1/14/2003	163	B16060	SV	10			
49-M	B8296	17.5	HR3H	15,680	x		1/14/2003	350	B16061	SV	12			
49-D	B8295	25.5	HR3H	15,680	x		1/14/2003	381	B16062	ML	20			
50-S	B8300	8.5	HR3H	15,710			1/14/2003	409	B16065	SV	17			
50-S	B8300	8.5	HR3H	15,710	x		1/14/2003	409	B16065	SV	16			
50-M	B8298	17.5	HR3H	15,710	x		1/14/2003	522	B16064	ML	37			QC analysis duplicate
50-D	B8298	28.5	HR3H	15,710	x		1/14/2003		No yield					No yield
51-S	B8303	9.5	HR3H	15,890	x		1/14/2003	367	B16068	SV	23			
51-M	B8302	17.5	HR3H	15,890	x		1/14/2003	443	B16067	SV	32			
51-D	B8301	25.5	HR3H	15,890	x		1/14/2003	455	B16068	ML	43			
52-S	B8306	7.0	HR3H	16,100	x		1/14/2003	203	B16071	SV	8			
52-M	B8305	15.0	HR3H	16,100	x		1/14/2003	256	B16070	SV	2			
52-D	B8304	24.0	HR3H	16,100	x		1/14/2003	310	B16069	ML	5			

Aquifer Sampling Tubes: November 2002 to January 2003

AQST_NAME CURRENT	WELL_ID	PORT DEPTH (feet)	SEGMENT	WELL	On tube list	On tube list	Fall 2002 Sample Date	Fall 2002 Spec Conduct (uS/cm)	Fall 2002 Sample No.	Fall 2002 Lab	Fall 2002 Hex Chromium (ug/L)	Fall 2002 Sulfate (mg/L)	Savern Trent Analyses	Fall 2002 Comment
53-S	B6309	8.0	HR3H	16.370	x	x	1/14/2003		Not sampled					Assigned lowest priority
53-M	B6308	17.0	HR3H	16.370	x	x	1/14/2003		Not sampled					Assigned lowest priority
53-D	B6307	26.0	HR3H	16.370	x	x	1/14/2003		Not sampled					Assigned lowest priority
54-S	B6312	7.5	HR3H	16.400	x	x	1/15/2003	178	B16077	SV	1			
54-M	B6311	17.0	HR3H	16.400	x	x	1/15/2003	286	B16076	SV	7			
54-D	B6310	26.0	HR3H	16.400	x	x	1/15/2003	232	B16075	SV	1			
55-S	B6315	10.0	HR3H	16.670										
55-M	B6314	18.0	HR3H	16.670										
55-D	B6313	26.0	HR3H	16.670										
57-S	B6321	7.0	HR3H	17.100										
57-M	B6320	16.0	HR3H	17.100										
57-D	B6319	25.0	HR3H	17.100										
58-S	B6324	11.0	HR3H	17.160										
58-M	B6323	19.5	HR3H	17.160										
58-D	B6322	26.5	HR3H	17.160										
59-S	B6327	11.0	HR3H	17.380										
59-M	B6326	16.5	HR3H	17.380										
59-D	B6325	23.0	HR3H	17.380										
60-S	B6330	8.5	HR3H	17.740										
60-M	B6328	17.5	HR3H	17.740										
60-D	B6328	26.5	HR3H	17.740										
61-S	B6333	8.5	FR3	18.100										
61-M	B6332	15.5	FR3	18.100										
61-D	B6331	24.0	FR3	18.100										
62-S	B6336	8.0	FR3	18.400	x	x	1/16/2003	145	B16082	SV	1			
62-M	B6335	18.0	FR3	18.400	x	x	1/16/2003	444	B16080	SV	4			
62-D	B6334	26.0	FR3	18.400	x	x	1/16/2003	444	B16079	STR			Sr-90	
63-S	B6339	10.0	FR3	18.810	x	x	1/16/2003	142	B16088	SV	3			No yield
63-M	B6338	16.0	FR3	18.810	x	x	1/16/2003	193	B16086	SV	14			DOWNRIVER
63-D	B6337	23.0	FR3	18.810	x	x	1/16/2003		No yield					MIDDLE; no Sr-90 due very low yield; river sc = 129
64-S	B6342	7.5	FR3	18.940	x	x	1/16/2003		No yield					No yield
64-M	B6341	17.0	FR3	18.940	x	x	1/16/2003	133	B16082	SV	1			UPRIVER; no yield
64-D	B6340	27.0	FR3	18.940	x	x	1/16/2003	219	B16080	SV	3			DOWNRIVER
65-S	B6345	8.5	FR3	19.100	x	x	1/16/2003	219	B16091	STR			Sr-90	
65-M	B6345	8.5	FR3	19.100	x	x	1/16/2003	153	B16080	SV	7			MIDDLE; river sc = 132
65-D	B6344	16.0	FR3	19.100	x	x	1/16/2003	146	B16080	SV	8			River sc = 130.2
66-S	B6343	27.0	FR3	19.100	x	x	1/16/2003	178	No yield					QC analysis duplicate
66-M	B6348	10.0	FR3	19.370	x	x	1/16/2003	209	B16086	SV	0			Spec conduct too low for Sr-90
66-D	B6347	19.2	FR3	19.370	x	x	1/16/2003	204	B16082	SV	4			No yield
67-S	B6346	26.1	FR3	19.370	x	x	1/16/2003	204	B16083	STR				
67-M	B6351	10.0	FR3	19.590	x	x	1/16/2003	179	B16083	STR	1			
67-D	B6350	20.0	FR3	19.590	x	x	1/16/2003	181	B16082	SV	2			
68-S	B6349	30.0	FR3	19.590	x	x	1/16/2003	161	B16089	STR				
68-M	B6354	10.5	FR3	19.760	x	x	1/16/2003		No yield					No yield
68-D	B6353	18.3	FR3	19.760	x	x	1/16/2003		Not sampled					Not accessed—edges in the area
69-D	B6352	25.0	FR3	19.760	x	x	1/16/2003		Not sampled					Not accessed—edges in the area

Figure 3-9. 100-KR-4 Chromium Plume, Fall 2002.

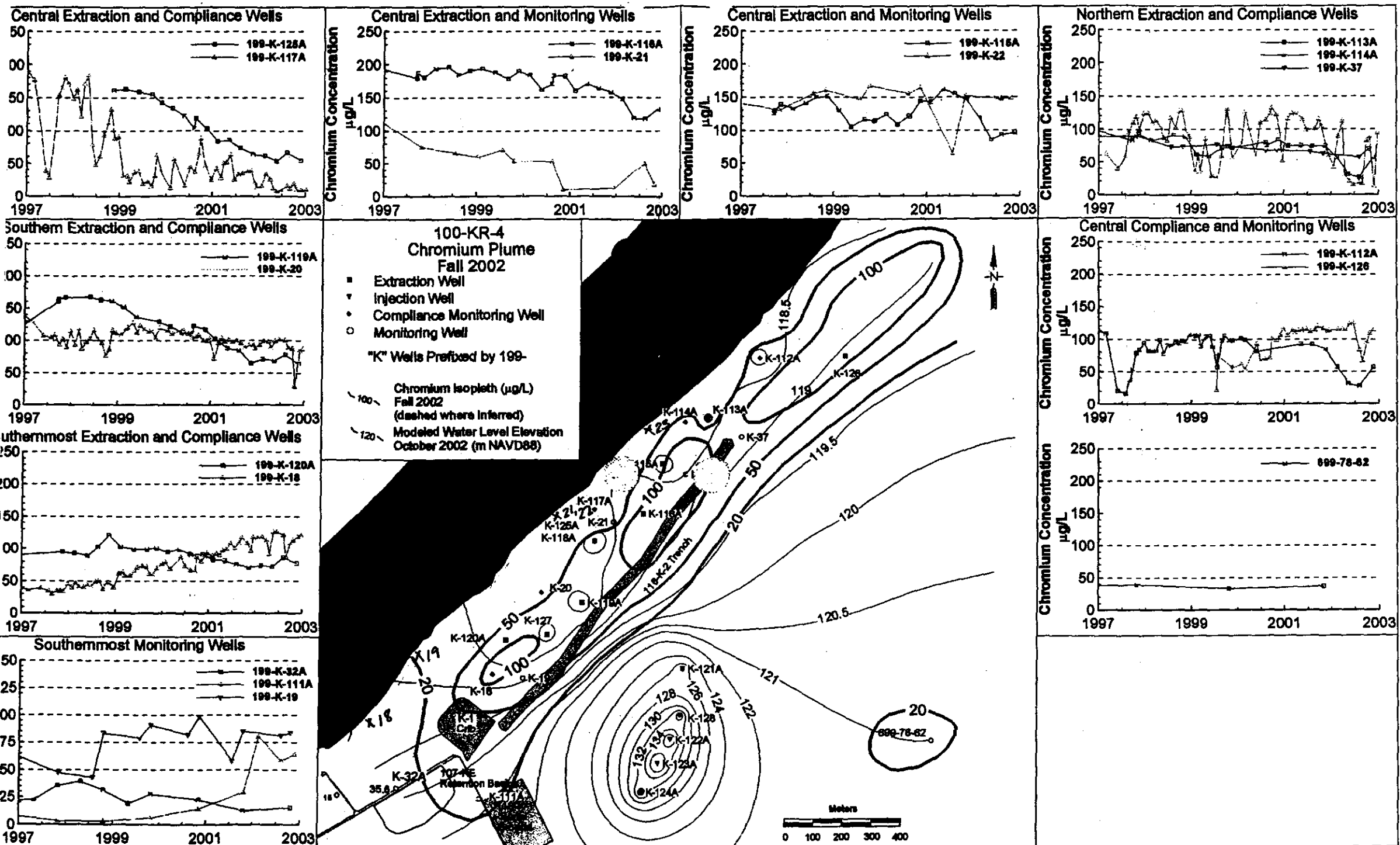


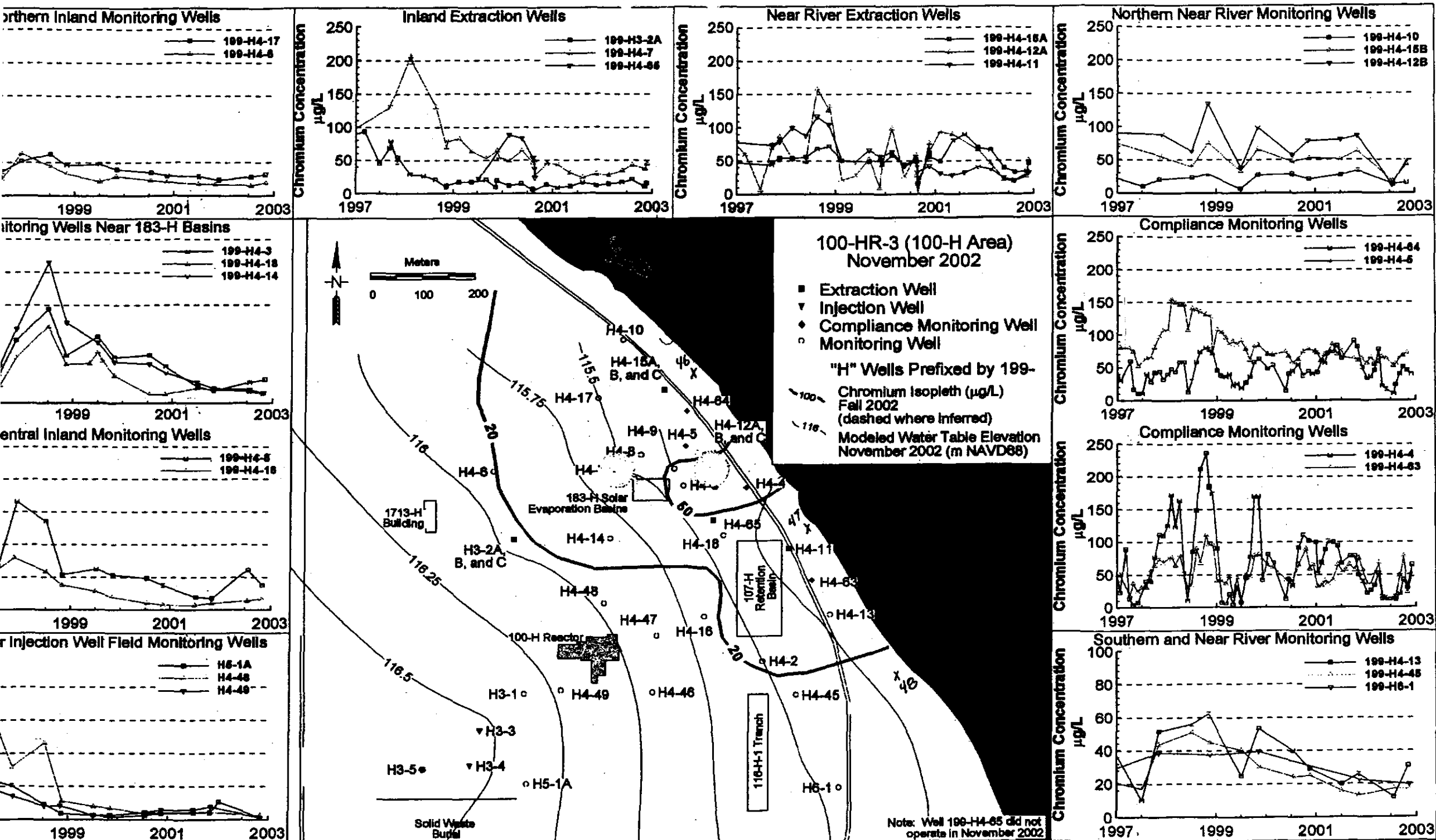
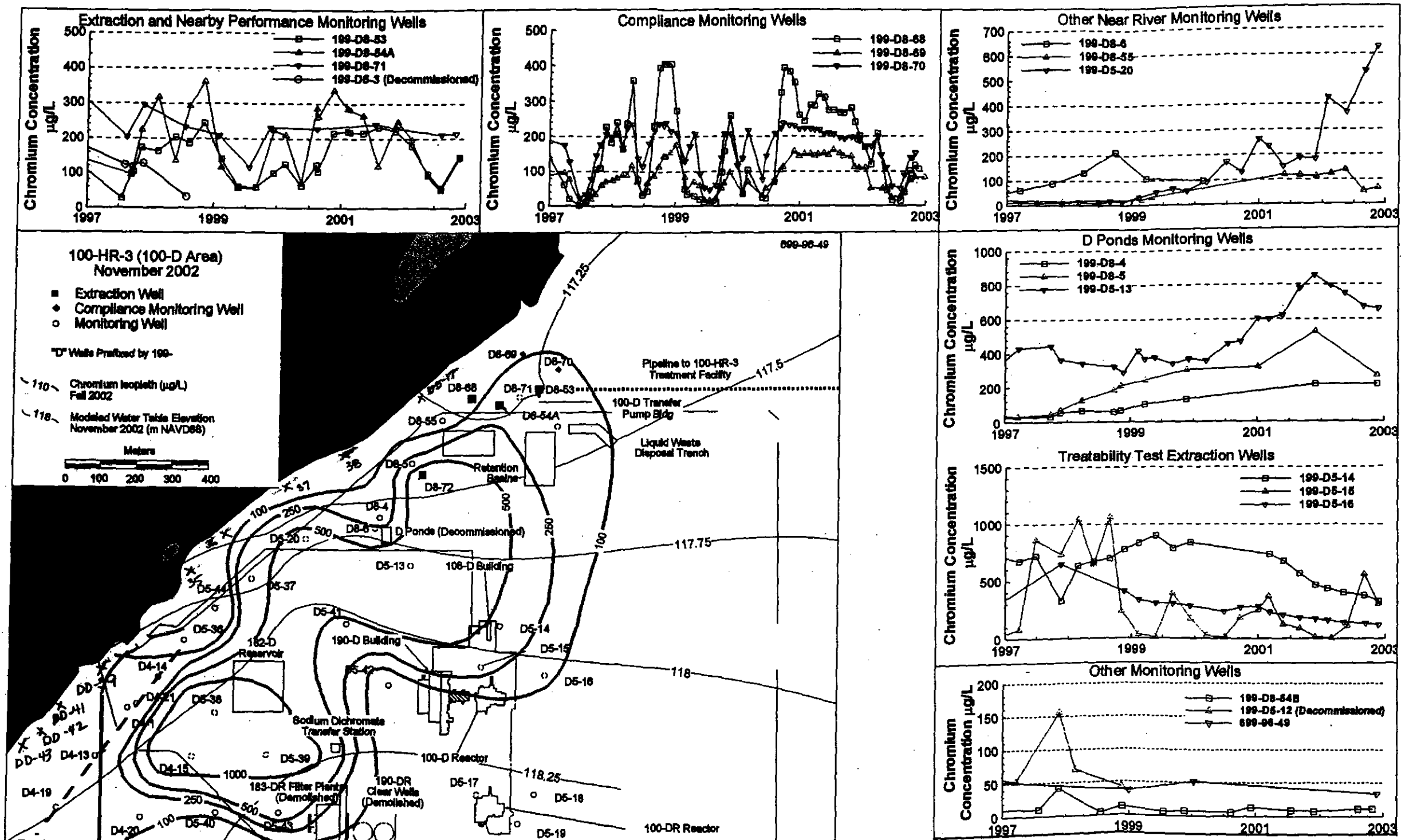
Figure 2-13. 100-H Area 2002
Chromium Plume.

Figure 2-10. 100-D Area 2002 Chromium Plume Map.



Petroleum hydrocarbons in 100 N Area: Status 22 May, 2003

M.J. Hartman, PNNL

In March 2003 the thickness of the floating product in well 199-N-18 (Figure 1 shows well locations) was measured at 0.09 ft (~2 cm). The samplers then collected (a) primarily the floating product; and (b) groundwater beneath the floating product, representing dissolved contamination. Previous groundwater samples from this well (e.g. September 2001) may have included some nonaqueous product in addition to dissolved contamination, causing the result to be higher than was representative of dissolved product.

Results of the March 2003 analyses for well 199-N-18 (Table 1) indicate that (a) the floating product is diesel (630,000 mg/L) and (b) the groundwater still contains elevated levels of dissolved contamination (1,600 mg/L; Figure 2).

Nearby monitoring wells 199-N-3 and 199-N-19 contained no detectable contamination in March 2003 (Figure 3; note difference in scale). Well 199-N-3 is also monitored for the 1301-N RCRA site, and has had elevated total organic carbon levels, but these have declined since late 2000 (Figure 4). No oil sheen or odor were noted during sampling in March 2003.

Well 199-N-96A, on the bank of the Columbia River, was sampled in April 2003 but results have not been received from the lab to date.

The groundwater project will continue to monitor petroleum hydrocarbons and will sample wells 199-N-3, 199-N-18, 199-N-19, and 199-N-96A semiannually for TPH-gas, TPH-diesel, and oil and grease.

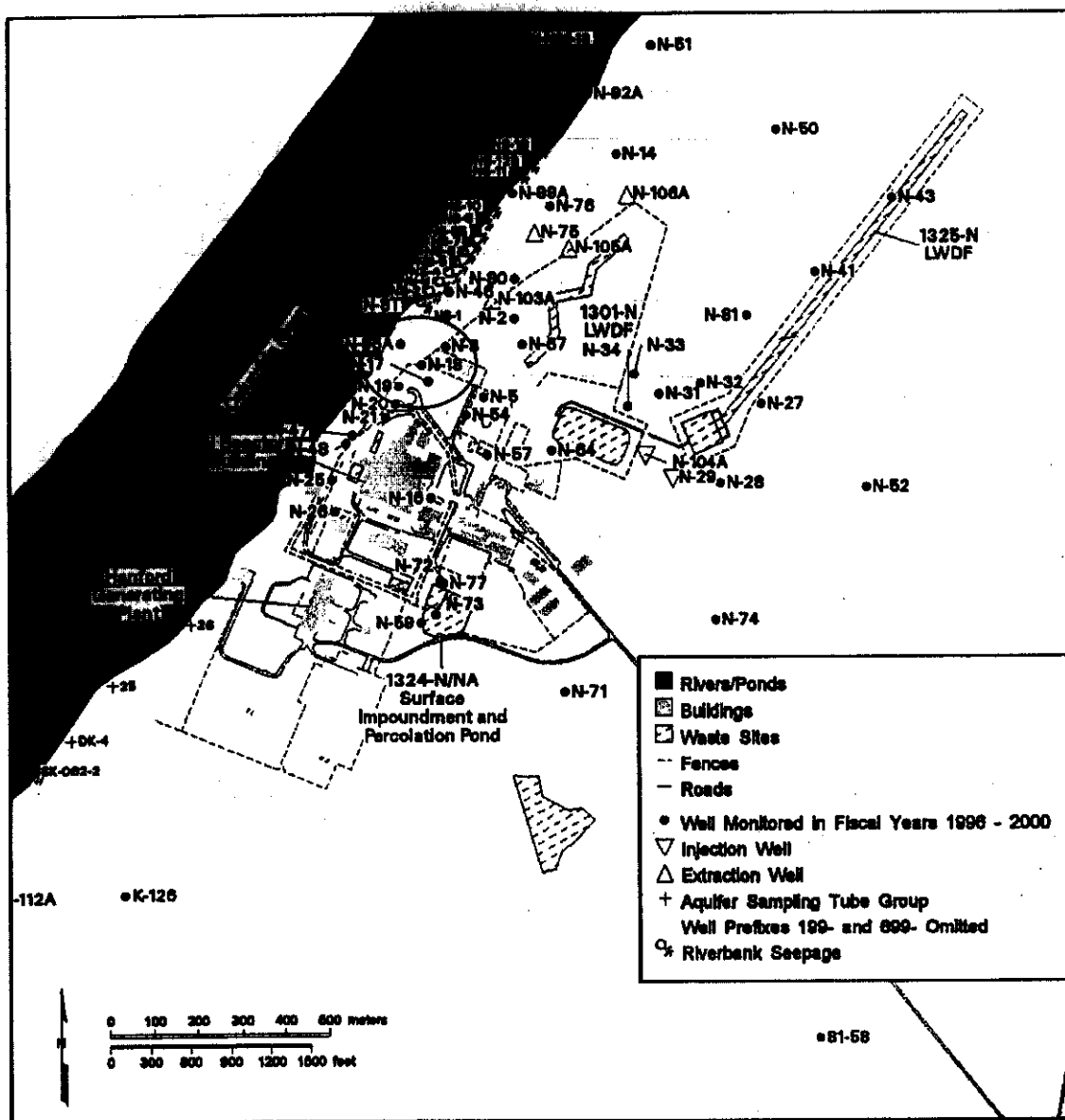


Figure 1. Monitoring Wells in the 100 N Area. Oval shows area of petroleum hydrocarbon contamination

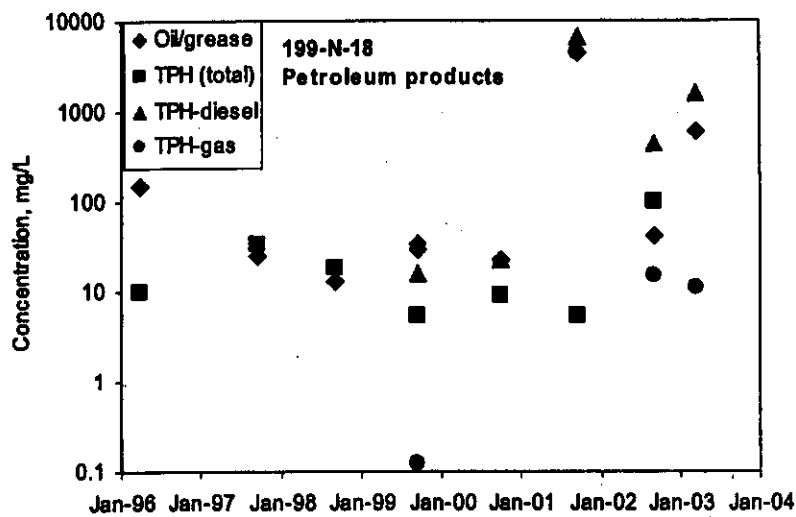


Figure 2. Petroleum hydrocarbons in well 199-N-18, near former leak site.

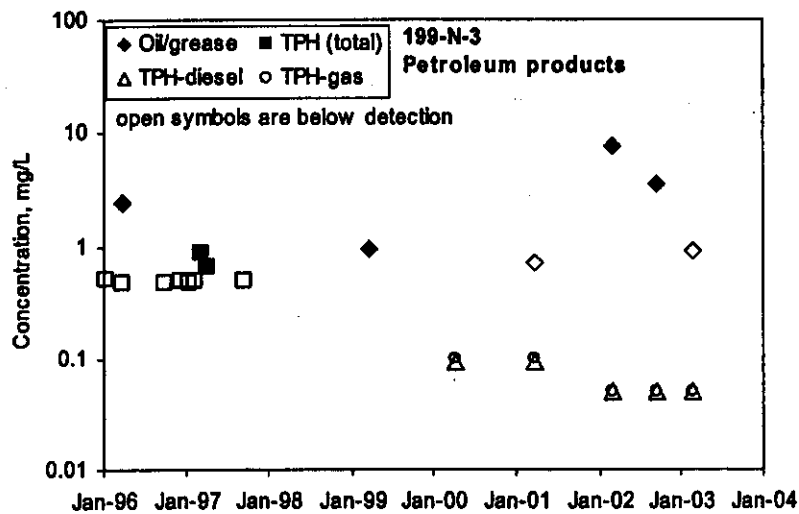


Figure 3. Petroleum hydrocarbons in well 199-N-3, cross-gradient from former leak site.

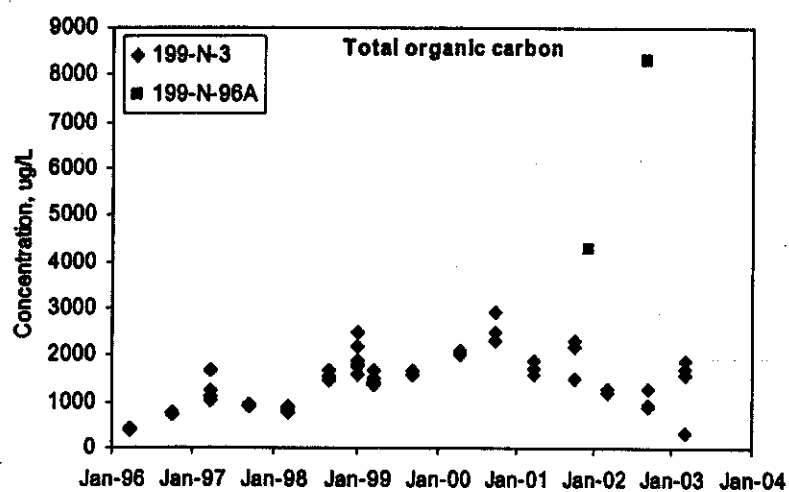


Figure 4. Total organic carbon in wells 199-N-3 and 199-N-96A (no March 2003 TOC data for 199-N-96A).

Shading indicates most recent results (2 sheets).

Petroleum hydrocarbons in 100-N Area, 22 May 2003, page 5

Table 1. Petroleum hydrocarbons and Detected Volatile Organic Compounds
in wells 199-N-18, 199-N-19, 199-N-3, and 199-N-96A.

Shading indicates most recent results (2 sheets).

Well	Constituent	Date	Result	Units	Lab Qual.	Review Qualifier
199-N-3	Oil and grease	3/4/2003	0.92	mg/L	U	
199-N-3	TPH	1/8/1996	0.5	mg/L	U	
199-N-3	TPH	3/25/1996	0.47	mg/L	U	
199-N-3	TPH	9/30/1996	0.47	mg/L	U	
199-N-3	TPH	12/5/1996	0.48	mg/L	U	
199-N-3	TPH	1/9/1997	0.47	mg/L	U	
199-N-3	TPH	2/5/1997	0.48	mg/L	U	
199-N-3	TPH	3/6/1997	0.85	mg/L		
199-N-3	TPH	4/2/1997	0.64	mg/L		
199-N-3	TPH	9/10/1997	0.495	mg/L	U	
199-N-3	TPH - diesel range	4/13/2000	0.092	mg/L	U	
199-N-3	TPH - diesel range	3/22/2001	0.092	mg/L	U	
199-N-3	TPH - diesel range	3/22/2001	0.092	mg/L	U	
199-N-3	TPH - diesel range	3/5/2002	0.05	mg/L	U	
199-N-3	TPH - diesel range	9/16/2002	0.05	mg/L	U	
199-N-3	TPH - diesel range	9/16/2002	0.05	mg/L	U	
199-N-3	TPH - diesel range	3/4/2003	0.05	mg/L	U	
199-N-3	TPH - gasoline range	4/13/2000	0.1	mg/L	U	
199-N-3	TPH - gasoline range	3/22/2001	0.1	mg/L	U	
199-N-3	TPH - gasoline range	3/22/2001	0.1	mg/L	U	
199-N-3	TPH - gasoline range	3/5/2002	0.05	mg/L	U	
199-N-3	TPH - gasoline range	9/16/2002	0.05	mg/L	U	
199-N-3	TPH - gasoline range	9/16/2002	0.05	mg/L	U	
199-N-3	TPH - gasoline range	3/4/2003	0.05	mg/L	U	
199-N-96A	Acetone	9/9/2002	3.1	ug/L	JB	
199-N-96A	Methylene chloride	9/9/2002	0.86	ug/L	JB	
199-N-96A	Oil and grease	12/3/2001	0.7	mg/L	U	H
199-N-96A	Oil and grease	9/9/2002	1.3	mg/L		
199-N-96A	Oil and grease	4/16/2003	pending	mg/L		
199-N-96A	TPH	1/13/1997	0.5	mg/L	U	
199-N-96A	TPH	3/10/1997	0.47	mg/L	U	
199-N-96A	TPH	9/24/1997	0.5	mg/L	U	
199-N-96A	TPH - diesel range	12/3/2001	0.05	mg/L	U	
199-N-96A	TPH - diesel range	9/9/2002	1.5	mg/L		
199-N-96A	TPH - diesel range	4/16/2003	pending	mg/L		
199-N-96A	TPH - gasoline range	12/3/2001	0.05	mg/L	U	
199-N-96A	TPH - gasoline range	9/9/2002	0.05	mg/L	U	
199-N-96A	TPH - gasoline range	4/16/2003	pending	mg/L		

Qualifiers:

B = analyte found in associated laboratory blank

D = sample diluted before analysis. Result corrected for dilution.

H = exceeded recommended holding time.

J = estimated value (e.g., close to detection limit).

N = laboratory spike sample associated with result was outside control limits.

U = less than detection limit.

Y = suspected error. TPH result was low while TPH-gas and TPH-diesel were much higher.

WIDS Site CVP Closeout Summary Table

WIDS Site Closeout	CVP Doc. No. documenting WIDS site closeout	EPA/ Ecology WIDS Signoff	Issue Rev. 0 CVP
100 B/C Area			
116-B-13	CVP-1999-00002	7/22/99	7/1999
116-B-14	CVP-1999-00003	7/22/99	7/1999
116-C-1	CVP-1998-00006	1/21/99	1/1999
116-B-1	CVP-1999-00012	12/08/1999	12/1999
116-B-11	CVP-1999-00001	12/08/1999	12/1999
116-C-5	CVP-1999-00004	12/08/1999	12/1999
116-B-4	CVP-1999-00014	02/24/2000	03/03/2000
116-B-6B	CVP-1999-00017	02/24/2000	03/03/2000
116-B-9	CVP-1999-00009	02/24/2000	03/03/2000
116-B-2	CVP-1999-00015	02/24/2000	03/03/2000
116-B-3	CVP-1999-00013	02/24/2000	03/03/2000
116-B-10	CVP-1999-00010	02/24/2000	03/03/2000
116-B-12	CVP-1999-00008	02/24/2000	03/03/2000
116-C-2A	CVP-1999-00019	03/15/2000	03/28/1999
116-C-2B			
116-C-2C			
116-B-6A	CVP-1999-00011	05/17/2000	05/26/2000
116-B-16			
116-B-7	CVP-2002-00003	7/25/2002	08/06/2002
132-B-6			
132-C-2			
BC Pipeline	CVP-2002-00012	(Review Draft 08/12/03; Signoff 9/30/03)	
1607-B7	CVP-2003-00004	05/27/2003	
1607-B8	CVP-2003-00005	05/27/2003	
1607-B9	CVP-2003-00006	(Review Draft 06/30/03; Signoff 8/19/03)	
1607-B10	CVP-2003-00007	05/27/2003	
1607-B11	CVP-2003-00008	05/27/2003	
100-C-3	CVP-2003-00009	05/27/2003	
100 D Area			
100-D-4 (107D5)	CVP-98-00004	03/25/1999	3/1999
100-D-20 (107D3)	CVP-98-00003	03/25/1999	3/1999
100-D-21(107D2)	CVP-98-00002	03/25/1999	3/1999
100-D-22 (107D1)	CVP-98-00001	03/25/1999	3/1999
1607-D2		closed	
1607-D2:1 Tile Field	CVP-98-00005	03/25/1999	3/1999
Septic Pipelines	CVP-2000-0004	09/26/2000	9/2000
Septic Tank	CVP-99-00005	11/23/1999	12/1999
116-DR-9	CVP-99-00006	01/06/2000	1/2000
100-D-25			
116-D-7	CVP-99-00007	08/15/2000	8/2000
100-D-18 (107D4)	CVP-2000-00001	09/26/2000	10/02/2000
116-DR-1	CVP-2000-00002	09/26/2000	09/27/2000
116-DR-2			
100-D-48		closed	
100-D-48:1 (Grp 2 North Pipelines)	CVP-2000-00003	03/14/2001	3/2001
100-D-48:2 (Grp 2 West Pipelines)	CVP-2000-00005	09/26/2000	10/02/2000
100-D-48:3 (Grp 3 Large Pipelines)	CVP-2000-00034	04/20/2001	04/20/2001
100-D-48:4 (Grp 3 Small Pipelines)	CVP-2000-00033	04/17/2001	04/20/2001
100-D-19	CVP-2000-00003	03/14/2001	3/2001
UPR-100-D-4			
100-D-49		closed	
100-D-49:1 (Grp 2 North Pipelines)	CVP-2000-00003	03/14/2001	3/2001
100-D-49:2 (Grp 2 East Pipelines)	CVP-2000-00005	09/26/2000	10/02/2000
100-D-48:3 (Grp 3 Large Pipelines)	CVP-2000-00034	04/20/2001	04/20/2001

WIDS Site CVP Closeout Summary Table

WIDS Site Closeout	CVP Doc. No. documenting WIDS site closeout	EPA/ Ecology WIDS Signoff	Issue Rev. 0 CVP
100 D Area (cont.)			
UPR-100-D-2	CVP-2000-00005	09/26/2000	10/02/2000
UPR-100-D-3			
100-D-5	CVP-2000-00034	04/20/2001	04/20/2001
100-D-6			
116-D-3	no CVP site rejected	05/17/2000	N/A
116-D-4	CVP-2000-00008	10/23/2000	10/31/2000
116-D-6	CVP-2000-00009	11/07/2000	11/09/2000
116-D-1A			
116-D-1B	CVP-2000-00010	03/12/2001	3/2001
100-D-46			
116-D-2	CVP-2000-00013	10/23/2000	10/25/2000
116-DR-6	CVP-2000-00014	10/23/2000	10/24/2000
116-DR-4	CVP-2000-00015	10/23/2000	10/25/2000
100-D-12	CVP-2000-00016	10/23/2000	10/26/2000
100-D-52	CVP-2000-00018	11/07/2000	11/09/2000
116-DR-7	CVP-2000-00019	09/26/2000	10/02/2000
116-D-9	CVP-2000-00012	03/23/2001	03/23/2001
100 H Area			
1607-H2	CVP-2000-00024	02/05/2001	2/2001
1607-H4	CVP-2000-00025	02/26/2001	02/26/2001
116-H-1	CVP-2000-00026	04/04/2001	04/11/2001
116-H-7	CVP-2000-00027	07/24/2001	08/01/2001
100-H-5	CVP-2000-00028	12/21/2000	12/21/2000
100-H-17			
116-H-2	CVP-2000-00031	03/06/2001	03/08/2001
100-H-2			
100-H-30			
100-H-21			
100-H-22	CVP-2000-00029	03/29/2001	03/29/2001
100-H-1			
100-H-24	CVP-2000-00030	05/09/2001	5/2001
116-H-3	CVP-2000-00032	04/03/2001	04/11/2001
100 N Area			
120-N-1			
120-N-2	CVP-2001-00021	03/28/2002	04/18/2002
100-N-58			
116-N-3	CVP-2002-00002	09/26/2002	12/23/2002
100 Area Misc. & 300 Area			
JA Jones	CVP-2001-00019	11/08/2001	12/10/2001
600-23	CVP-2001-00020	11/30/2001	12/17/2001
300-49 (Landfill 1A)	CVP-2001-00015	1/24/03 (Signoff 4/17/03)	
300-50 (Landfill 1B)	CVP-2001-00016	1/27/03 (Signoff 4/17/03)	
628-4 (Landfill 1D)	CVP-2001-00017	(Review Draft 04/10/03; Signoff 5/14/03)	
316-1(South Process Pond)	CVP-2001-00018	(Review Draft 04/10/03; Signoff 5/14/03)	
628-4 (Burial Ground)	CVP-2002-00014	(Review Draft 07/03/03; Signoff 08/21/03)	

WIDS Site CVP Closeout Summary Table

WIDS Site Closeout	CVP Doc. No. documenting WIDS site closeout	EPA/ Ecology WIDS Signoff	Issue Rev. 0 CVP
100 F Area			
116-F-4	CVP-2001-00006	11/08/2001	11/15/2001
116-F-5	CVP-2001-00007	08/16/2001	08/23/2001
1607-F6	CVP-2001-00010	11/08/2001	11/15/2001
UPR-100-F2	CVP-2001-00011	04/22/2002	05/07/2002
100-F-19:1	CVP-2001-00002	05/21/2002	06/10/2002
100-F-19:3			
100-F-34			
116-F-12			
100-F-40	site closed (No CVP)	02/15/2002	02/15/2002
116-F-14	CVP-2001-00009	07/11/2002	07/18/2002
100-F-2	CVP-2001-00001	07/25/2002	08/05/2002
100-F-15	CVP-2002-00001	07/25/2002	08/06/2002
100-F-4			
100-F-11			
100-F-16			
116-F-9	CVP- 2001-00008	10/16/2002	10/22/2002
116-F-2	CVP- 2001-00005	01/13/2003	03/11/2003
126-F-1	CVP- 2002-00002	01/13/2003	TBD
100-F-35	CVP-2002-00007	04/15/2003	
116-F-1	CVP-2002-00009	(5/21/03)	
116-F-3	CVP-2002-00008	04/15/2003	
116-F-6	CVP-2002-00010	(5/21/03)	
116-F-10	CVP-2002-00006	04/15/2003	
1607-F2	CVP-2002-00005	01/13/2003	03/11/2003
100-F-19:2	CVP-2001-00003	05/27/2003	
116-F-11			
UPR-100-F1			
100-F-29			

108421

**Deferring 105-D Fuel Storage Basin
Side Slope Soils
To Remedial Action/Waste Disposal Program
May 15, 2003**

I. Background

Decontamination and decommissioning (D&D) of the 105-D Fuel Storage Basin (FSB) by Decommissioning Projects is nearing completion. Demolition material has been removed and in-process characterization of the excavation has been completed. The remaining below-grade concrete structure in the deep zone was sampled and backfilled with clean fill to cover the concrete surfaces during the side slope soil remediation activities. Subsequent in-process characterization data indicates that after several layers of soil were removed, unacceptably high residual radiological contamination remained in the side-slope and overburden soils. Additional soil remediation will be needed that is beyond the scope of the Decommissioning Projects.

II. Discussion

The *Sampling and Analysis Plan for Interim Closure of the 105-D and 105-H Reactor Below-Grade Structures and Underlying Soils* (DOE/RL 2001a) contains specific requirements for conducting interim closure sampling of 105-D FSB side-slope soils. *Side-slope soils* are those soils remaining in the sloped areas on each side of the final excavation. This sampling and analysis plan requires that interim closure soil sampling methodologies be consistent with those contained in the *100 Area Remedial Action Sampling and Analysis Plan* (DOE/RL 2001b).

The *Action Memorandum for the 105-D and 105-H Reactor Facilities and Ancillary Facilities* (Ecology, et al. 2000) states the following:

"If it is not feasible to remediate below-grade structures and soil at the time of D&D, the site would be identified as a discovery site in the Hanford Site Waste Site Database. Disposition of these sites would then be deferred to the Remedial Action and Waste Disposal Project, where they would be remediated in accordance with the appropriate 100 Area CERCLA ROD. Ecology's approval is necessary to defer the D&D action to the Remedial Action and Waste Disposal Project."

The 105-D FSB (118-D-6:3) soil areas will be deferred accordingly to a later remediation project for soil cleanup or reactor block removal since that area is largely within the shadow of the reactor. Soils will be closed out at that time in accordance with the *100 Area Remedial Action Sampling and Analysis Plan* (DOE/RL 2001b), except that the contaminants of concern (COC's) for these areas will be those listed in the *Sampling and Analysis Plan for Interim Closure of the 105-D and 105-H Reactor Below-Grade Structures and Underlying Soils* (DOE/RL 2001a).

III. Conclusion

In accordance with *The Action Memorandum for the 105-D and 105-H Reactor Facilities and Ancillary Facilities* (Ecology, et al. 2000), the remediation and cleanup verification of the 105-D FSB soils (118-D-6:3) will be deferred to the Remedial Action Program. Radiologically contaminated overburden soils will be disposed of at the ERDF. Clean fill will be used to stabilize the excavation in support of the SSE roof installation. The in-process radiological and chemical characterization data, and waste site status information will be documented in a project report for transition to the Remedial Action Program, or the future project that removes the SSE and block.

IV. References

DOE/RL, 2001a, *Sampling and Analysis Plan for interim Closure of the 105-D and 105-H Reactor Below-Grade Structures and Underlying Soils*, DOE/RL-2001-18, Rev. 0, U. S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL, 2001b, *100 Area Remedial Action Sampling and Analysis Plan*, DOE/RL-96-22, Rev. 3, U.S. Department of Energy, Richland Operations Office, Richland, Washington.

Ecology, EPA, and DOE, 2000, *Action Memorandum for the 105-D and 105-H Reactor Facilities and Ancillary Facilities, Hanford Site, Benton County, Washington*, CCN 054209, approved December 8, 2000, Washington State Department of Ecology, U.S. Environmental Protection Agency Region X, and U.S. Department of Energy, Richland, Washington.

V. Concurrence

Concurrence by the Lead Regulatory Agency (Washington State Department of Ecology) also reflects concurrence by the U.S. Environmental Protection Agency.



D. C. Smith, Project Manager, Environmental Restoration Division
U. S. Dept. of Energy, Richland Operations Office

5/16/03

Date



F. W. Bond, Project Manager, Restoration Projects
Washington State Dept. of Ecology

5/16/03

Date